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Exam : 000-257

Title : Enterprise Application Development with IBM
Rational Application Developer V6.0

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QUESTION 1:

Which of the following presents the order in which the scopes would be searched for a data source JNDI name reference in a WebSphere Application Server V6 application?

- A. Cell, Node, Server
- B. Server, Node Cluster, Cell
- C. Application, Server Cluster, Node, Cell
- D. Server, Application, Node, Cluster, Cell

Answer: C

QUESTION 2:

A developer wants to test a J2EE V1.4 application with multiple message driven beans. Multiple JMS procedure applications will be deployed to the same WebSphere Application Server test server. Which of the following tasks must the developer complete on the test server to support testing this J2EE application?

- A. Create a single service integration bus and add the test server as a single bus member.
- B. Create a single service integration bus and add the test server as a multiple bus member.
- C. Create multiple service integration buses and add the test server as a single bus member to each bus.
- D. Create multiple service integration buses and add the test server as a multiple bus member to each bus.

Answer: A

QUESTION 3:

Which of the following data source settings is REQUIRED when a new DB2 data source for a WebSphere Application SERVER v6 APPLICATION IS CREATED?

- A. A name
- B. A category
- C. A description
- D. An authentication alias

Answer: A

QUESTION 4:

A WebSphere Test Environment V6 Server has been created in order to test a

Servlet. The Servlet uses the default messaging system to send messages to a JMS queue destination. At a minimum, what resources need to be configured on the server in order for the Servlet to be able to send messages to the destination?

- A. A service integration bus (with the server as a member) with an associated queue.
- B. A JMS connection factory and JMS queue destination
- C. A JMS connection factory and service integration bus (with the server as a member) with an associated queue.
- D. A JMS connection factor, JMS queue destination and service integration bus (with the server as a member) with an associated queue

Answer: D

QUESTION 5:

To promote an ejbCreate method to the local home interface, the developer can right click the method in the:

- A. Deployment descriptor and select Enterprise Bean -> Promote to Local Home Interface.
- B. Deployment view and select Enterprise Bean -> Promote to Local Home Interface
- C. Source view and select Enterprise Bean -> Promote to Local Home Interface.
- D. Outline view and select Enterprise Bean -> Promote to Local Home Interface

Answer: D

QUESTION 6:

An EJB client begins a new transaction and makes calls to a number of entity beans. The client detects an error condition and rolls back the transaction. If database updates made by one of the entity beans are not rolled back, what is the likely cause?

- A. The entity bean's transaction attribute is set to Requires New.
- B. Another user concurrently accessed the same entity bean and committed the transaction.
- C. The container failed to propagate the client's transactional context to the entity bean.
- D. The entity bean is running in a non-transactional EJB container

Answer: A

QUESTION 7:

A developer has written session bean A that invokes session bean B and session bean C. Session bean B logs events to an audit table. If session bean C causes the transaction to roll back, the session bean B should still write to the table. What

should be the transaction attribute for the session bean B?

- A. Mandatory
- B. Required
- C. RequiresNew
- D. Supports

Answer: C

QUESTION 8:

When mapping a container-managed relationship field to a foreign key using Rational Application Developer, the developer can:

- A. Create the backend folder
- B. Specify the navigability
- C. Specify the converter.
- D. Specify the multiplicity

Answer: C

QUESTION 9:

A developer has made changes to EJBs that were previously deployed. Errors now appear in the Problems view. Using the EJB project's context menu, which is the BEST way to resolve the error?

- A. Select Deploy
- B. Select Quick-Fix, and click OK.
- C. Select Redeploy Deployed Code, and click OK.
- D. Select Delete. In the subsequent dialog, select only Redeploy Deployed Code, and click OK.

Answer: A

QUESTION 10:

What is the BEST way to use EJB QL to find the number of unique customer names, where customerName is a container-managed persistence field in an EJB?

- A. Use EJB aggregate functions.
- B. Use customer finder methods
- C. Use private helper methods
- D. Use ejbSelect methods.

Answer: D

QUESTION 11:

To set the default to add new enterprise beans to class diagrams, a developer should:

- A. Select "Allow newly generated / created EJBs to open in selected class diagram" on the EJB page in Modeling Preferences.
- B. Right click in the diagram editor and select "Allow newly generated / created EJBs to open in selected class diagram"
- C. Right click on the deployment descriptor and select "Allow newly generated / created EJBs to open in selected class diagram"
- D. Check "Open in Selected Class Diagram" when creating a new EJB with the wizard.

Answer: A

QUESTION 12:

A developer has created an entity EJB and is testing the component using the Universal Test Client (UTC). The developer has invoked the home interface's create method and is working with the component interface of the entity EJB. The developer would like to invoke the getPrimaryKey method of the javax.ejb.EJBLocalObject interface but cannot see the method displayed under the current component interface reference.

What should the developer do in order to be able to invoke this method?

- A. Select Load Class under the Utilities section of the UTC and input javax.ejb.EJBLocalObject. When the class is loaded, Invoke the constructor and then invoke the getPrimaryKey method on the resulting instance.
- B. Select Method Visibility under the entity EJB's component interface. On the screen that appears, enable the checkbox beside javax.ejb.EJBLocalObject.
- C. Select Load Class under the Utilities section of the UTC and input ENTITY EJB's bean class. When the class is loaded, Invoke the constructor and then invoke the getPrimaryKey method on the resulting instance.
- D. Expose the getPrimaryKey method via the component interface by wrapping it within a business method, redeploy the bean and invoke the wrapper method.

Answer: B

QUESTION 13:

Which of the following is the mechanism used by the code snippets feature to cache EJB homes in an MDB that accesses session EJBs?

- A. The ServiceLocatorManager utility class.
- B. The LocalServiceManager utility class

- C. Private convenience methods to access a static HashMap.
- D. A utility helper class that uses a HashMap for caching

Answer: A

QUESTION 14:

For read-only EJB's what is the BEST cache setting to provide better response time at the cost of increase memory usage?

- A. Set activate at ONCE and load at ACTIVATION.
- B. Set activate at ONCE and load at TRANSACTION.
- C. Set activate at TRANSACTION and load at ONCE.
- D. Set activate at TRANSACTION and load at TRANSACTION.

Answer: A

QUESTION 15:

An Application Client makes calls to an EJB. A user reports that running the client resulted in a NoInitialContextException. What is a likely cause of this?

- A. JNDI is not enabled on the server.
- B. The client was not executed using the Application Client container
- C. The EJB could not be found on the server.
- D. An application error occurred in the EJB.

Answer: B

QUESTION 16:

A developer is working with an EJB mapped to a database table containing customer details with a primary key of customerNo. What is the BEST way to support searching for a list of EJB by email address?

- A. Add a new custom finder method
- B. Add a new ejbSelect method
- C. Add a new ejbHome method that uses JDBC.
- D. Add a new business method.

Answer: A

QUESTION 17:

To associate the container-managed relationship field of an existing EJB to the corresponding foreign key, a developer should use:

- A. The container-managed relationship mapping wizard.
- B. A top-down approach in the mapping editor.
- C. A meet-in-the-middle approach in the mapping editor.
- D. A bottom-up approach in the mapping editor.

Answer: C

QUESTION 18:

The following code snippet is found in the beginning of a session bean method:

```
Logger lo = Logger.getLogger("ejbs");  
log.setLevel(Level.ALL);  
log.entering("MYSessionBean", "hello");
```

By default, what file would a developer open to see the runtime output of this code snippet?

- A. activity.log
- B. trace.log
- C. SystemOut.log
- D. SystemErr.log

Answer: B

QUESTION 19:

Which of the following Server editor options will prevent projects from requiring deployment when a developer runs them?

- A. Enable automatic publishing
- B. Setting the server instance hostname to "localhost" and the profile name to "default"
- C. Run server with resources within the workspace.
- D. Run server with resources in Server

Answer: C

QUESTION 20:

An enterprise application containing a Web module and EJB module is to be deployed to a server. A stateless session bean is used by a message-driven bean and a Servlet. How should the EJB references be configured?

- A. In the Reference page of the EJB deployment descriptor editor, create a reference for use by both the message-driven bean and the Web module.

- B. In the Reference page of the EJB deployment descriptor editor, create a reference for use by the message-driven bean and another reference for use by the Web module.
- C. In the Reference page of the EJB deployment descriptor editor, create a reference for use by both the message-driven bean and the References page of the Web deployment descriptor editor, create another reference for use by the Web module.
- D. In the Enterprise application's deployment descriptor editor, create a link between the stateless session bean and both the message-driven bean and the Web module.

Answer: C

QUESTION 21:

In applications targeted for WebSphere Application Server V6, where should application specific class-loader policies be configured?

- A. resources.xml
- B. application.xml
- C. ibm-application-ext.xml
- D. WebSphere Enhanced EAR

Answer: D

QUESTION 22:

During development a CMP entity bean was successfully tested using DB2 v8.2 that resided on the developer's machine. The developer now wishes to test EJB against a remote DB2 v8.2 database. The new database has the same schema as the original but contains more data entries. In order to test the EJB against the new database, the developer must:

- A. 1. Update the data source to point to the new database.
- B. 1. Generate the backend folder that maps the CMP fields to the new database.
2. Update the backend folder in the EJB Deployment Descriptor editor.
- C. 1. Generate a new backend folder that maps the CMP fields to the new database.
2. Update the backend folder in the EJB Deployment Descriptor editor.
3. Update the data source to point to the new database.
- D. 1. Generate the backend folder that maps the CMP fields to the new database.
2. Update the backend folder in the EJB Deployment Descriptor editor.
3. Generate the deploy code for the EJB.
4. Update the data source to point to the new database.

Answer: A

QUESTION 23:

When creating a test server, where does a developer configure server resources?

- A. Via the Administration Console even if "Run server with resources within the workspace" is selected.
- B. Via the Administration Console only when the "Run server with resources within the workspace" is unselected.
- C. Via the server configuration editor
- D. Via the WebSphere Enhanced EAR file only.

Answer: A

QUESTION 24:

A developer using a workbench with default WebSphere Application Server V6 test environment settings has updated the JNDI names for the Session and Entity beans in an Enterprise application project to meet company naming standards. After performing this task, the application generates the following error in the console.

"A Reference object looked up from the context "java:" with the name.

"comp/env/ejb/xxxx" was sent to the JNDI Naming Manager and an

exception resulted. Reference data follows:

Reference Factory Class Name:

Com.ibm.ws.naming.util.IndirectjndiLookupObjectFactory"

Which is the MOST LIKELY cause for this new error?

- A. The WebSphere binding JNDI name for EJB deployment descriptor editor on the Beans tab are incorrect.
- B. The WebSphere binding JNDI name for the EJB references in the EJB deployment descriptor editor do not match the current JNDI names.
- C. The WebSphere binding JNDI names in the deployment descriptor do not match the current values. The server needs to be restarted.
- D. The WebSphere binding JNDI names in the deploy code do not match the current deployment descriptor names. The Enterprise application needs a clean rebuild.

Answer: B

QUESTION 25:

When testing a Web application, a developer modifies a set Servlet initialization parameters while the test is running. If hot method replace is enabled, what action, if any, is required to continue testing the modified code?

- A. Restart the server.
- B. Manually restart the EAR project
- C. Refresh the web browser.
- D. Do nothing: The code will be automatically reloaded.

Answer: D

QUESTION 26:

Which of the following profiling views would a developer MOST likely use to identify poorly performing code?

- A. Object Reference Graph
- B. Sequence Diagram
- C. Coverage Statistics
- D. Method Statistics

Answer: D

QUESTION 27:

When unit testing an enterprise application, a developer modifies a datasource configuration within the WebSphere Enhanced EAR while the test server is running. What action, if any is required to continue testing the application?

- A. Restart the server and republish the application
- B. Restart the EAR project
- C. Refresh the web browser
- D. Do nothing the code will be automatically reloaded.

Answer: A

QUESTION 28:

A developer has gathered profiling data and is attempting to view it using one of the profiling views. No data is displayed in the view. What is the MOST likely cause?

- A. The Remote Agent Controller is not running
- B. The developer selected the wrong profiling set
- C. The application being profiled has terminated
- D. The developer has not stopped the Profiling agent

Answer: B

QUESTION 29:

A Java component test is being used to test business logic in a method. The business logic makes use of a third party library interface. What mechanism can be used to provide a replacement implementation for the third party library interface during testing?

- A. A data set that mimics the data returned from the library

- B. An abstract Java Component test
- C. Another Java component test
- D. A Java component stub

Answer: D

QUESTION 30:

The HTTP proxy recorder has been used to generate and execute a URL test suite that simulates user interaction with a Web application that uses a data source. The tester now would like to generate a report that provides information pertaining to the test run. Which report type is available to the tester via the test perspective?

- A. HTTP session size report
- B. Method invocation time report
- C. Page hit rate report
- D. Memory use report

Answer: C

QUESTION 31:

A developer has just installed an enterprise application project to a WebSphere Application Server V6 test server. While testing the application, the developer sees the following error in the console:

```
Javax.naming.NameNotFoundException: Context
Node01Cell/node/nodes/Node01/servers/server1, name:jdbc/DataSourceDS: First
component in name DataSourceDS notfound.Root exception is
org.omg.CosNaming.NamingContextPackage.NotFound:
IDL:omg.org/CosNaming/NamingContext/NotFound:1.0
Which is the MOST PROBABLE cause for this error?
```

- A. A data source with JNDI binding name of jdbc/DataSourceDS needs to be configured on the server.
- B. The EJB deployment descriptor needs to have a reference to a JNDI - CMP Connection Factory Binding name of jdbc/DataSourceDS added.
- C. The test server needs to be restarted
- D. The application project needs to be restarted

Answer: A

QUESTION 32:

A Servlet has been reconfigured , and a required filter is no loner being executed before the Servlet. What is the MOST likely cause?

- A. The Servlet's URL Mappings changed, and the filter was configured with a Servlet mapping.
- B. The Servlet's URL Mapping changed, and the filter was configured with a URL mapping
- C. The init parameter that specified the filter was removed
- D. The Servlet's Filter Mapping was removed.

Answer: B

QUESTION 33:

A developer is developing a simple tag using the Simple TagSupport class. The tag has a required attribute "id" which is used during tag processing. What methods does the developer need to implement for this tag?

- A. do Tag
- B. do Tag, setld, getld
- C. doStartTag, doEndTag
- D. doEndTag, setld, getld
- E. doStartTag, doEndTag, setld, etld

Answer: B

QUESTION 34:

A developer has developed a tag library with an associated handler class and tag library descriptor (TLD) file called "taglib.tld" . The TLD file specifies the value of the element as "mytag" . The handler class and tld file have been placed in their correct locations in the dynamic Web project (that is, they have not been packaged as a JAR file). With this information, which of the following is a valid format for the taglib directive?

- A. <% @ taglib uri="/WEB-INF/tld/taglib.tld" prefix="mytag" %>
- B. <% @ taglib uri="/META-INF/tld/taglib.tld" prefix="mytag" %>
- C. <% @ taglib uri="/WEB-INF/lib/tld/taglib.tld" prefix="mytag" %>
- D. <% @ taglib uri="mytag" prefix="pre" %>

Answer: A

QUESTION 35:

How should a Struts JSP development team prototype the View and navigation of their website design before the Javaprogrammers on the team have implemented their code?

- A. Use JSPs with direct invocation between pages, eliminating dependency on

ActionForm Java code development.

- B. Use ActionForms to eliminate dependency on Java Programmers and tags for navigation and validation.
- C. Use DynaValidatorForms to eliminate dependency on ActionForm and validation code development and use tags for navigation.
- D. Use a static html prototype.

Answer: C

QUESTION 36:

Which of the following is NOT an appropriate use of a filter?

- A. To monitor changes in the user's session
- B. To decompress the request and compress the response
- C. To transform XML content to HTML or WML depending on the type of client
- D. To implement customized authentication of users.

Answer: A

QUESTION 37:

A developer has a partially completed Dynamic Web project that includes Faces JSPs. Design information indicates that the FACES jspS WILL USE THE "Basic with client-side data caching" model. Although all Relational Record Lists have been defined, some of the Faces JSPs have not been updated to reference the data. After opening each Faces JSP, which of the following views could be used to verify if a JSP contained this reference?

- A. The Page Data view will contain a reference to the Relational Record List that expands to show all selected records.
- B. The Database Explorer view will contain a defined connection to the applications datasource that expands to show the appropriate tables.
- C. The Client Data view will contain a reference to the Relational Record List that expands to show all selected records.
- D. The Project Explorer view contain a recordList folder under the WebContent folder that expands to show the selected records in the JSPs.

Answer: C

QUESTION 38:

In order to support failover of HttpSessionS, a developer has chosen to use database session persistence. Which of the following approaches is MOST LIKELY to improve performance?

- A. Cache as much information as possible in the HttpSession to minimize database access.
- B. Use the application database for session persistence to minimize the number of database connections required
- C. Use Compressed Sessions and the IBMSession.compress () method to reduce the size of data in the session before persistence
- D. Use Manual Update and the IBMSession.sync() method to persist the session data only when it has been updated.

Answer: D

QUESTION 39:

A developer is implementing security in an EJB project that may be deployed on either WebSphere Application Server V6, or some other J2EE server. Adding which of the following in the EJB deployment descriptor editor should be avoided.?

- A. Methods to the Exclude List on the Assembly tab.
- B. Method Permissions on the Assembly tab.
- C. Bean level Security identities on the Access tab.
- D. Method level Security identities on the Access tab.

Answer: D

QUESTION 40:

A developer or assembler is pulling together a number a J2EE modules into an EAR project. After gathering the security roles, it is determined that several modules have different names for the same role. What is the MOST efficient way to establish the proper security role bindings?

- A. Determine an application-wide role naming scheme and update all module role references accordingly.
- B. Use the Replace Security Role wizard to define an application specific role naming scheme.
- C. Leave the roles as they are and configure the same security settings for the duplicated roles.
- D. Use the security role alias mechanism to associate all equivalent security roles to a single alias.

Answer: B

QUESTION 41:

An EJB accesses a DB2 datasource using a resource reference with authentication (res-auth) set to "Container" . How should the JAAS authentication alias be

configured so that security related exceptions are not thrown when the datasource is accessed?

- A. Set the container-managed authentication alias in the datasource configuration
- B. Set the component-managed authentication alias in the data source configuration
- C. Set the container-managed authentication alias in the JDBC provider configuration
- D. Set the authentication alias in the resource reference configuration

Answer: D

QUESTION 42:

A Web application using J2EE role-based security is required to present users with a custom login page. Clients also want the server to authenticate itself. How should security be configured?

- A. Specify CLIENT_CERT as the authentication method in the Web deployment descriptor .
- B. Specify FORM as the authentication method in the Web deployment descriptor
- C. Specify BASIC as the authentication method in the Web deployment descriptor.
- D. Specify BASIC as the authentication method in the Web deployment descriptor and enable SSL.

Answer: B

QUESTION 43:

Which of the following security settings can NOT be created or set from the Project Explorer view?

- A. Security Constraints
- B. Security Roles
- C. Web Resource Collections
- D. Servlet Run AS ELEMENTS

Answer: D

QUESTION 44:

Which of the following EJB components can be used as the basis for bottom-up Web services development in Rational Application Developer?

- A. Message-driven bean
- B. Stateful session bean
- C. Stateless session bean
- D. Container-managed entity bean

Answer: C

QUESTION 45:

A developer is creating multiple Web services and wants to be notified when a Web service is not WS-1 complaint. The developer should:

- A. Set the WS-1 compliance workbench preferences to "ignore compliance"
- B. Set the WS-1 compliance workbench preferences to "Suggest compliance"
- C. Use the Filters dialog from the Problems view to enable WS-1 compliance warnings
- D. Check the Enable WS-1 compliance checkbox in the dynamic Web project's properties

Answer: B

QUESTION 46:

Which of the following is an advantage of using the Service Locator pattern in a Web service client?

- A. It decouples the client from details of locating the service.
- B. It caches the Web service home to eliminate redundant lookups.
- C. It guarantees that the service can always be located
- D. It allows the client to determine the network protocol to be used in the service call.

Answer: A

QUESTION 47:

Which of the following BEST describes the constraint required to be able to add a JAX-RPC handler via the WS Handler tab of the web xml editor?

- A. A service reference needs to be defined
- B. A webservicescient.xml file must be present
- C. The Web service needs to be defined in the same workspace.
- D. The WSDL file needs to be available to the Web project

Answer: A

QUESTION 48:

A developer is creating a client to invoke a secured Web Service, which requires client authentication. What type of element should the developer configure in the WS Extension page of the client's Deployment Descriptor?

- A. Integrity

- B. Confidentiality
- C. Security Token
- D. Timestamp

Answer: C

QUESTION 49:

A handler configured on a Web service client needs to block the request to the Web service and generate a fault. The handler should:

- A. Return false
- B. Return a Fault object
- C. Throw a SOAPFaultException
- D. Throw any Runtime Exception

Answer: C

QUESTION 50:

In an enterprise application EJB_A Invokes a method on EJB_B. How must the EJB run-as security be configured in the EJB deployment descriptor for the current setting to allow EJB_A to invoke EJB_B?

- A. Set run-as EJB_A to role_A
- B. Set run-as on EJB_A to role_B
- C. Set run-as on EJB_B to role_A
- D. Set run-as on EJB_B to role_B.

Answer: B

QUESTION 51:

While configuring a datasource in the EAR deployment descriptor editor, the drop-down boxes that allow a JAAS authentication alias to be specified are empty. How can the JAAS authentication alias be configured in order for it to be visible in the drop down box?

- A. Add a J2EE security role with associated users in the EAR deployment descriptor editor.
- B. Add the required JAAS authentication alias in the EAR deployment descriptor editor.
- C. Add the JAAS authentication alias to the datasource reference in the EJB deployment descriptor editor.
- D. Use the WebSphere V6 administrative console to add the JAAS authentication alias.

Answer: B

QUESTION 52:

A web module defines a J2EE security role, Managers, Using the appropriate deployment descriptor editor, the developer then binds this role to the User Registry user, supervisors. What file would need to be explored to find this specified association?

- A. application.xml
- B. web.xml
- C. ibm-application-bnd.xml
- D. ibm-web-bnd.xml

Answer: C

QUESTION 53:

A developer is implementing security requirements for a Web module. Which HTTP Methods would be the MOST likely to cover these requirements?

- A. GET and POST
- B. GET and PUT
- C. GET, POST, and PUT
- D. GET,POST,PUT and DELETE

Answer: A

QUESTION 54:

A developer wants to use form-based, authentication to secure resources in a Web application. In the Web deployment descriptor editor, the developer has set the Authentication method to FORM and configured appropriate security roles. What additional entries need to be configured to protect the resources?

- A. Specify a Login page and create a Security Constraint defining the URL patterns of the resources to be secured and appropriate Authorized roles.
- B. Specify Login and Error pages and create a Security Constraint defining the URL patterns of the resources to be secured and appropriate Authorized roles.
- C. Specify Login and Error pages
- D. Specify a Login page

Answer: B

QUESTION 55:

A developer is designing a high-volume Web-base enterprise application to be

deployed on a WebSphere application Server V6.0 Network Deployment platform. This application needs to maintain a modest (less than 2kb) amount of conversational state. The BEST design option for the developer is to manage this application state via:

- A. Client-side hidden fields
- B. Replicated Http Session objects
- C. Replicated stateful session beans
- D. Combination of replicated HttpSession objects and a relational database

Answer: B

QUESTION 56:

A Web application is distributed across multiple Web containers. The application is required to track hit counts for each of the Servlets in the application. The hit counts must be global and should not be tracked on a per-container basis. Which of the following is the BEST solution for storing the data?

- A. The ServletContext
- B. The HttpSession
- C. An Instance variable in each Servlet
- D. A database table

Answer: D

QUESTION 57:

A Web developer has implemented a tag within a tag library that uses the Simple Tag interface. The tag iterates over a collection and prints the contained objects to the screen. If the tag is out a collection with five contained objects, how many times is the do Tag method invoked?

- A. 0
- B. 1
- C. 5
- D. 6

Answer: B

QUESTION 58:

Which of the following is an appropriate use of an event listener?

- A. To respond to events in the lifecycle of a stateful session bean
- B. To setup application-scope variables when a Web application is started

- C. To ensure that objects in the user's session are removed when they are no longer used
- D. To perform an action before a user's session is serialized to disk

Answer: B

QUESTION 59:

A developer is designing a Struts-based application. The developer finds common operations throughout the application's many action classes. A best practice to avoid duplicate code would be to:

- A. Use the WebDiagram editor to implement a global intermediary Action with the common operations. On success or failure, forward to the original Actions or error handlers as appropriate.
- B. Create a new Java class and use the Superclass option to extend `org.apache.struts.action.RequestProcessor` class. After executing the common operations, invoke the `ActionServlet` from the new `RequestProcessor` by using the `RequestDispatcher`
- C. Create a new Java class and use the Superclass option to extend the `org.apache.struts.action.ActionServlet` class. Implement all common operation methods. Use the WebDeployment Descriptor editor to use this new class as the `ActionServlet`.
- D. Create a new Java and use the Superclass option to extend the `org.apache.struts.action.Action` class and handle the common operations. Use this new class when implementing the Action classes.

Answer: D

QUESTION 60:

A developer would like to use a tag from the JSP Standard Tag Library (JSTL). What is the first task the developer must complete before using the tag in a JSP?

- A. Import the JSTL jar file containing the tag handler classes and tag library descriptor into the dynamic Web project.
- B. Import the tag handler classes into the dynamic Web project's `WEB-INF\classes` directory and place the tag library descriptor file into the dynamic Web project's `WebContent` folder
- C. Import the tag handler classes into the dynamic Webproject's `WEB-INF\classes` directory and place the tag library descriptor file into the dynamic Web project's `WEB-INF` folder
- D. Insert a `taglib` directive referencing the tag libraries URI in the JSP that uses the tag.

Answer: D

QUESTION 61:

A developer is working on a Dynamic Web project that uses Faces JSP pages. The

application displays information from three existing related tables. Using the available Faces features in the workbench, the developer should:

- A. Drag and drop a Relational Record List from the Palette to the Faces JSP. Use the resulting wizard to navigate the required table data through their relationship, select the Data Control to be created, and then select the columns to be displayed.
- B. Drag and drop three Relational Records from the Palette into a table on the Faces JSP. Use the resulting wizard to navigate the tables and select the required columns to be displayed.
- C. Drag and drop a Relation Record List from the Faces Client Component drawer to the Faces JSP. Access the appropriate table data through Java objects using JDBC on the Faces JSP.
- D. Use the Faces Client Components to access the table information through a JDBC datasource. Faces JSPs may then be used to format and provide access to the appropriate table information

Answer: A

QUESTION 62:

To create a new data source for a websphere application server V6 .0 application, which of the following steps may be used before specifying the authentication alias?

- A. Open the Server editor, expand the Server section, and select a JDBC Provider. With the JDBC Provider selected, create a new data source specify a JNDI name, and then set the "Database name" property appropriately.
- B. Open an EJB Deployment Descriptor editor, select the Overview tab, expand the WebSphere Bindings section and select a JDBC Provider. With the provider selected, create a new data source specify a JNDI name and then set the "Database name" property appropriately.
- C. Use the server's Administrative Console to configure a Servlet Integration Bus. Once created a data source member with the appropriate JDBC Provider, JNDI name, and "Database name" property.
- D. Use the server's Administrative Console to configure a new JDBC Provider under "Resources" Once created select the provider and create a new data source with the appropriate JNDI name, "Database name" property.

Answer: D

QUESTION 63:

The BankEAR file is an enhanced EAR file that has a data source defined for the Bank database, defined with a JNDI name jdbc/Bank. The EAR file is going to be deployed on a WebSphere Application Server V6 test server that currently has a data source configured for the Bank Test database with a JNDI name of jdbc/Bank. What will be the result of deploying the BankEAR enterprise application to the test

server?

- A. The BankEAR application jdbc/Bank JNDI reference will reference the Bank database.
- B. The BankEAR application jdbc/Bank JNDI reference will reference the Bank test database.
- C. The BankEAR deployment will fail due to a duplicate resource reference on the test server.
- D. The test server's jdbc/Bank JNDI reference will be updated to reference the Bank database

Answer: A

QUESTION 64:

What happens when an application server is added as a member of multiple service integration busses?

- A. A connection factory is configured to be used by all of the service integration busses.
- B. A single messaging engine is configured to be used by all of the service integration busses.
- C. A unique messaging engine is created for each service integration bus.
- D. A connection factory is created each service integration bus.

Answer: C

QUESTION 65:

Consider the following situation:

- * A Servlet is running within Server A and is using the default messaging system to send messages to a JMS destination
 - * A service integration bus named BUS_X has been created with Server A, Server B and Server C as bus members
 - * Server A and Server B run on the same host
 - * The Servlet uses a JMS connection factory to connect to one of the bus members.
- Besides specifying a Scope, Name and JNDI name for the connection factory, what additional connection factory configuration is necessary for connections to be attempted to the various servers hosting a messaging engine in the following order. Server A, Server B, Server C?

- A. Set "Bus name" to Bus_X and "Connection proximity " to Cell.
- B. Set "Target" to BUS_X and "Connection proximity" to ServerA, SERVER B, SERVERC.
- C. Set :Target" to Server A, Server B, Server C and "Connection proximity" to BUS_X
- D. Set "Bus name" to BUS_X and "Connection proximity" to Bus.

Answer: D

QUESTION 66:

When unit testing a web application, a developer refactors the controller logic resulting in several new dependent classes while the test server is running. If hot method replace is enabled, what action if any, is required to continue testing the modified code?

- A. Restart the server
- B. Restart the EAR project
- C. Refresh the web browser
- D. Do nothing the code will be automatically reloaded.

Answer: D

QUESTION 67:

A developer is using the Component Test features to create a test case invokes a sequence of public methods on a group of java components. What type of test pattern should be selected in the Create Java Component Test wizard?

- A. Method-level testing
- B. Scenario based testing
- C. Stub based testing
- D. Data pool based testing

Answer: B

QUESTION 68:

An EJB test component has been created in order to automate the testing of a remote business method in an EJB. One of the requirements that must be tested is the response time of the method invocation. What component testing feature should be used?

- A. Initialization point
- B. Profiling constraint
- C. Timing constraint
- D. Scheduling constraint

Answer: C

QUESTION 69:

Which of the following profiling view would a developer MOST likely use to detect a memory leak?

- A. Coverage Navigator
- B. Object Reference Graph
- C. Performance Call Graph
- D. Execution Flow

Answer: B

QUESTION 70:

A developer has created an Enterprise Application project with multiple EJB projects, Dynamic Web projects, and Java utility projects. The Problems view has no messages, but the developer gets a `java.lang.NoClassDefFoundError`.stack trace at runtime dealing with classes that are contained in the Java utility project. Which action should be taken to address the MOST LIKELY problem?

- A. Change the Classloader mode in the server from single to Multiple.
- B. Verify that the Java utility projects are in the required project's Java JAR dependencies
- C. Verify the JNDI bindings for EJBs and resources in the a appropriate deployment descriptors
- D. Verify the Server target runtime in the Enterprise application's properties

Answer: B

QUESTION 71:

Which of the following profiling views would a developer MOST likely use to detect areas of code not tested by a test suite?

- A. Coverage Navigator
- B. Method Statistics
- C. Performance Call Graph
- D. Execution Flow

Answer: A

QUESTION 72:

After adding a DB2 datasource to a WebSphere Application Server V6 test server, a developer receives the following error on server startup:

DSRA80401: Failed to connect to the DataSource. Encountered
:java.lang.ClassNotFoundException: DSRA8000E: No jar or zip files found in
/db2java.zip

Which is the MOST PROBABLE cause?

- A. The developer did not supply a JNDI name for the data source
- B. The developer has provided a non-JDBC 2 compliant driver in the definition of the data source
- C. The developer has selected the wrong provider type during the JDBC driver definition
- D. The developer has failed to define the DB2_JDBC_DRIVER_PATH environment variable.

Answer: D

QUESTION 73:

When unit testing an EJB application, a developer changes the signature of a method on a session bean's remote interface while the test server is running. In addition to generating deploy code for this EJB, what other action, if any, is required to continue testing the modified code?

- A. Restart the EAR project
- B. Restart the server
- C. No action is required as the code will be automatically reloaded.
- D. No action is required if hot method replace is enabled, otherwise the EAR project must be restarted

Answer: C

QUESTION 74:

A developer has two J2EE applications that are loosely coupled via WebSERVICES. The two applications are designated as the server application and the client application. The Web service is referenced and called from a Web module in the client application. In which set of files would a developer configure JAX-RPC handler?

- A. The service application's webservices .xml and the service application's web.xml files.
- B. The client application's webservices .xml and the service application's ejb-jar.xml files.
- C. The client application's webservices .xml and the service application's web.xml files.
- D. The service application's webservices .xml and the client application's web.xml files.

Answer: D

QUESTION 75:

A client uses a generated java proxy to make a call to a Web service. Invoking the method on the proxy results in a RemoteException. What is a likely cause?

- A. The server hosting the Web service is unavailable
- B. An application exception was thrown by the Web service
- C. A handler on the client was configured incorrectly
- D. The client was run in an unmanaged environment

Answer: A

QUESTION 76:

Which of the following EJB components can be used as the basis for bottom-up Web services development in Rational Application Developer?

- A. Message-driven bean
- B. Stateful session bean
- C. Stateless session bean
- D. Container-managed entity bean

Answer: C

QUESTION 77:

If a developer wants to create a Web service that must conform to all supported WS-1 profiles, the developer should:

- A. Set the WS-1 Compliance preferences to "Require compliance" before the web service
- B. Set the WS-1 Compliance preferences to "Suggest compliance" before creating the Web service and disable related warning in the Problem view.
- C. Use the New WS-1 Compliance Web Service wizard to create the Web service
- D. Check the "Require WS-1 compliance" checkbox in the New Web Service wizard

Answer: A

QUESTION 78:

A developer is creating a client to invoke a secured Web service. The service requires that the body of the SOAP request be encrypted. What type of element in the WS Extension page of the client's Deployment Descriptor should the developer configure?

- A. Integrity
- B. Confidentiality
- C. Security Token
- D. Timestamp

Answer: B

QUESTION 79:

A developer runs a web service client in an unmanaged environment using a generated java proxy. The client thrown as Exception indicating that it failed to create an initialContext. The same proxy class used in a managed environment works fine. If the developer did not modify the generated code, what is a likely cause of the problem?

- A. The security context for the JNDI manager cannot be propagated in an unmanaged environment
- B. The transaction context can not be propagated in an unmanaged environment
- C. The web service being invoked uses the SOAP over JMS binding
- D. Java proxies generated by the wizard can only be run in a managed environment

Answer: C

QUESTION 80:

A developer is working on two development projects and does not want the projects deployed to the same server instance. What is the best way to achieve this?

- A. Use the "Add and remove projects...*" option before working on each project
- B. Create a second profile and setup a second server instance that uses it.
- C. Use the launch pad option to install a second server instance on the localhost and setup a second server instance that uses it.
- D. Separate the two projects into two workspaces and use the default server instance in each workspace.

Answer: B

QUESTION 81:

A developer has an application that needs to access a DB2 database and is setting up the test server for the first time. After creating a DB2 JDBC provider via the administrative console, what other setup step **MUST** he perform?

- A. Create one or more datasources for the application
- B. Set the DB2_JDBC_DRIVER_PATH WebSphere variable
- C. Add db2java zip to the JVM classpath property for server1.
- D. Reference the JDBC provider for any datasources defined in the WebSphere Enhanced EAR files.

Answer: B

QUESTION 82:

Consider the following situation:

- * A developer wants to deploy an enterprise application (EAR1) to a server with a default configuration.
 - * The enterprise application will contain two Webmodules (WebApp1 and WebApp2 packaged as war files) and one EJB module (EJB1 packaged as a jar file)
 - * Two utility JARs (JAR1 and JAR2) are used among these files
 - * JAR1 is used by all modules (WebApp2 and EJB1).
 - * JAR2 is specific to WebApp2 and is only used by that module.
- How should the various modules and utility JARs be packaged in order to deploy EAR1 as an ear file?

- A. 1.Place JAR1.jar in the root of EAR1.ear and configure it as a dependent JAR within EJB1. WebApp1 and WebApp2.
2.Place JAR2.jar in the WEB-INF/lib directory within WebApp2.war.
- B. 1.Place JAR1.jar and JAR2.jar in the root of EAR1.ear as well as in WEB-INF/lib of both WebApp1.war and WebApp2.war.
2.Place JAR1.jar in EJB1 .jar's META-INF directory.
- C. 1.Place JAR1.jar and JAR2.jar in WebApp1.war and WebApp2.war's WEB-INF/lib directory
2.Place JAR1.jar in the root of EAR .ear and configure it as a dependent JAR within EJB1.
- D. 1.Place JAR1.jar in the root of EAR1.ear.
2.Place JAR2.jar in the WEB-INF/lib directory within WebApp2.war.

Answer: A

QUESTION 83:

A small development team has a powerful shared server available for testing code while the developer machines are somewhat underpowered. What steps should be taken to exploit this resource?

- A. Create a common integration testing profile on the shared server.
- B. Have each developer select New -> Server from the Servers view and use the hostname and SOAP port number of the shared server to create a new profile
- C. Dedicate the shared server as an application staging server
- D. Create a Web Sphere Application Server profile for each developer on the shared server

Answer: D

QUESTION 84:

An entity EJB has been developed that uses container-managed persistence. The EJB to RDB mapping information has been saved to a backend folder. How should the backend folder be specified in order for the entity bean to be deployed and

tested property?

- A. With the individual entity bean within the EJB project using the deployment descriptor editor's Bean page.
- B. With the entire EJB project using the Enterprise application deployment descriptor editor's Module page.
- C. With the entire EJB project that contains the entity bean using the EJB deployment descriptor editor's Overview page.
- D. With the entire EJB project using the Enterprise application deployment descriptor editor's Deployment page.

Answer: C

QUESTION 85:

A developer is creating a CMP EJB using an existing database and has begun generating the RDB to EJB mapping by creating a new backend folder. The next step the developer should take is to:

- A. Specify attributes for the EJB.
- B. Map attributes to columns
- C. Create a bottom up mapping
- D. Create a top down mapping

Answer: C

QUESTION 86:

After creating an ejbSelect using EJB QL, the developer can make the query available to clients by:

- A. Promoting the ejbSelect method to Home Interface
- B. Promoting the ejbSelect method to LocalHome Interface
- C. Creating an ejbHome method that calls the ejbSelect method
- D. Creating a custom finder method that calls the ejbSelect method

Answer: C

QUESTION 87:

A Servlet needs to store a reference to a stateful session bean for use in a later request. The Servlet should:

- A. Store the reference to the bean in the HttpSession
- B. Store the bean's home in the HttpSession
- C. Store the bean's SessionContext in the HttpSession

D. Persist the bean reference in a database

Answer: A

QUESTION 88:

The relationship fields for a 1:1 container-managed relationship EJB must be of the same type as:

- A. The local interface of the related EJB.
- B. The remote interface of the related EJB.
- C. The primary key of the underlying table.
- D. The foreign of the underlying table

Answer: A

QUESTION 89:

A developer can assign container-managed relationship (CMR) fields by:

- A. Coding the ejbCreate () method
- B. Coding the ejbPostCreate () method
- C. Mapping the primary key to the foreign key
- D. Generating the code with the relationship wizard

Answer: B

QUESTION 90:

Given two CMP entity beans Customer and Order, and given a container-managed 1-to -many relationship between the two which of the following EJB QL queries will find all customers with unshipped orders?

- A. SELECT DISTINCT OBJECT (c) FROM Customer c, IN (c.orders) o WHERE c.o shipped = FALSE
- B. SELECT DISTINCT OBJECT (c) FROM Customer c, IN (c.orders) o WHERE .o shipped = FALSE
- C. SELECT DISTINCT OBJECT (c) FROM Customer c, IN (c.orders) o WHERE NOT o shipped
- D. SELECT DISTINCT OBJECT (c) FROM Customer c, IN (c.orders) o WHERE o shipped

Answer: B

QUESTION 91:

When creating a message-driven bean, which interface, if any, can be generated?

- A. The home interface
- B. The remote interface
- C. The listenerPort interface
- D. No interface can be generated

Answer: D

QUESTION 92:

A developer configures the following environment entry via the EJB deployment descriptor editor.

```
<env-entry>
<description></description>
<ENV-ENTRY-NAME>REMOTE_SERVER</ENV-ENTRY-NAME>
<env-entry-type>java.lang.String</env-entry-type>
<env-entry-value>myserver.sample.com</env-entry-value>
</env-entry>
```

What code snippet should be used to retrieve this information at runtime?

- A. (String)context.lookup("java:comp/env/remote_server");
- B. (String)context.lookup("remote_server");
- C. ejbContext.getEnvironment().getProperty("remote_server")
- D. ejbContext.getEnvironment().get("remote_server")

Answer: A

QUESTION 93:

A developer has just creating a new EJB project and wished to add EJBs to it using the visual programming features in Rational Application Developer. The best way to open a suitable diagram is to right click the deployment descriptor and select.

- A. New EJB Diagram File ->UML Diagram
- B. New Class Diagram File -> EJB Diagram
- C. Visual ->Add to New Diagram File -> Class Diagram
- D. Visualize -> New EJB File -> Class Diagram

Answer: C

QUESTION 94:

A stateless session EJB has been created that uses EJB inheritance. A developer is testing the newly created child EJB using the Universal Test Client (UTC). The developer has invoked the create method on the child EJB's home interface and is

now working with a reference to the child EJB's remote component interface. When the developer expands the child EJB's remote component interface reference within the UTC, the method inherited from the parent EJB are not displayed.

What should the developer do in order to be able to see the inherited methods?

- A. Select "Load Class" under the "Utilities" section of the Universal Test Client and load the parent EJB's remote component interface.
- B. Select "Cast Class" under the "Utilities" section of the Universal Test Client and cast the reference to the parent EJB's remote component interface
- C. Select "Method Visibility" under the child EJB's remote component interface. On the screen that appears enable the checkbox beside the parent EJB's remote component interface
- D. Use the JNDI Explorer to find the parent EJB's home interface, invoke the associated create method, and then cast the remote component interface that is returned to the child EJB's remote component interface type.

Answer: C

QUESTION 95:

Which of the following is an advantage of using the Snippets view generate code for invoking a method on a Session Bean?

- A. The Service Locator pattern is used and the home is cached
- B. The Service Locator pattern is used and individual bean interface are cached
- C. The generated code does not require try-catch blocks to handle error.
- D. The bean on which the method is invoked can be determined at runtime

Answer: A

QUESTION 96:

A developer is working with read-only EJBs that will have exclusive access to the data store. The BEST way to provide better response time at the expense of increased memory utilization is to use the bean cache section of the EJB deployment descriptor to set.

- A. Active at ONCE and load at ACTIVATION
- B. Activate at ONCE and load at TRANSACTION
- C. Activate at TRANSACTION and load at ONCE
- D. Activate at TRANSACTION and load at TRANSACTION

Answer: A

QUESTION 97:

An application uses container-managed persistence EJBs to update a DB2 database. If database support for handling collisions is required, which of the following access intent policies will provide the best performance?

- A. wsOptimisticUpdate
- B. wsPessimisticUpdate-WeakestLockAtLoad
- C. wsPessimisticUpdate
- D. wsPessimisticUpdate-Exclusive

Answer: B

QUESTION 98:

Which method in an entity bean would a developer have to code business logic in, if the contains references to resources that cannot be serialized?

- A. ejbRemove ()
- B. ejbStore ()
- C. ejbPassivate ()
- D. ejbFindByPrimaryKey ()

Answer: C